Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An information processing apparatus comprising:

a class classifier for classifying an aimed-at data item into one of a plurality of classes specified in advance, according to a plurality of data items disposed around the aimed-at data item;

a memory for storing conversion information for the aimed-at data item for each class; and

a converter for converting the aimed-at data item to a data item having a higher quality, according to the conversion information,

wherein the class classifier classifies the aimed-at data item into a different class according to at least one of a missing condition of the aimed-at data item and and/or one or more data items disposed around the aimed-at data item.

- 2. (Original) An information processing apparatus according to Claim 1, wherein the conversion information is information used for generating the aimed-at data item according to the plurality of data items disposed around the aimed-at data item, for a missing class in which the aimed-at data item is missing, and the conversion information is information used for converting the aimed-at data item to a data item having a higher quality, for a non-missing class in which the aimed-at data item is not missing.
 - 3. (Original) An information processing apparatus according to Claim 2, wherein the

conversion information is information used for converting the aimed-at data item to a data item

having reduced noise, for the non-missing class.

4. (Original) An information processing apparatus according to Claim 1, wherein the

conversion information is information obtained by learning achieved in advance.

5. (Original) An information processing apparatus according to Claim 1, wherein the

conversion information is prediction coefficients used for a linear or non-linear, or a first-order

or high-order estimation equation.

6. (Original) An information processing apparatus according to Claim 1, wherein the

class classifier classifies the aimed-at data item into one of the plurality of classes specified in

advance, according to a class tap which includes the plurality of data items disposed around the

aimed-at data item.

7. (Original) An information processing apparatus according to Claim 1, wherein the

converter converts the aimed-at data item to a data item having a higher quality, according to a

prediction tap corresponding to the class into which the aimed-at data item has been classified.

8. (Original) An information processing apparatus according to Claim 1, wherein the

class classifier classifies the aimed-at data item into one of the plurality of classes specified in

advance, according to a plurality of data items disposed spatially around the aimed-at data item.

- 9. (Original) An information processing apparatus according to Claim 1, wherein the class classifier classifies the aimed-at data item into one of the plurality of classes specified in advance, according to a plurality of data items disposed along the time axis around the aimed-at data item.
- 10. (Original) An information processing apparatus according to Claim 1, wherein the aimed-at data item is image data.
- 11. (Currently Amended) An information processing method comprising the steps of: classifying an aimed-at data item into one of a plurality of classes specified in advance, according to a plurality of data items disposed around the aimed-at data item;

selecting conversion information corresponding to the class into which the aimed-at data item has been classified; and

converting the aimed-at data item to a data item having a higher quality, according to the conversion information,

wherein the aimed-at data item is classified into a different class according to at least one of a missing condition of the aimed-at data item and and/or one or more data items disposed around the aimed-at data item, in the step of classifying the aimed-at data item.

12. (Original) An information processing method according to Claim 11, wherein the conversion information is information used for generating the aimed-at data item according to the plurality of data items disposed around the aimed-at data item, for a missing class in which the aimed-at data item is missing, and the conversion information is information used for

converting the aimed-at data item to a data item having a higher quality, for a non-missing class in which the aimed-at data item is not missing.

- 13. (Original) An information processing method according to Claim 12, wherein the conversion information is information used for converting the aimed-at data item to a data item having reduced noise, for the non-missing class.
- 14. (Original) An information processing method according to Claim 11, wherein the conversion information is information obtained by learning achieved in advance.
- 15. (Original) An information processing method according to Claim 11, wherein the conversion information is prediction coefficients used for a linear or non-linear, or a first-order or high-order estimation equation.
- 16. (Original) An information processing method according to Claim 11, wherein the aimed-at data item is classified into one of the plurality of classes specified in advance, according to a class tap which includes the plurality of data items disposed around the aimed-at data item, in the step of classifying the aimed-at data item.
- 17. (Original) An information processing method according to Claim 11, wherein the aimed-at data item is converted to a data item having a higher quality in the step of converting the aimed-at data item, according to a prediction tap corresponding to the class into which the aimed-at data item has been classified.

18. (Original) An information processing method according to Claim 11, wherein the aimed-at data item is classified into one of the plurality of classes specified in advance in the step of classifying the aimed-at data item, according to a plurality of data items disposed spatially around the aimed-at data item.

19. (Original) An information processing method according to Claim 11, wherein the aimed-at data item is classified into one of the plurality of classes specified in advance in the step of classifying the aimed-at data item, according to a plurality of data items disposed along the time axis around the aimed-at data item.

20. (Original) An information processing method according to Claim 11, wherein the aimed-at data item is image data.

21. (Currently Amended) A recording medium storing a computer-readable program, the program comprising the steps of:

classifying an aimed-at data item into one of a plurality of classes specified in advance, according to a plurality of data items disposed around the aimed-at data item;

selecting conversion information corresponding to the class into which the aimed-at data item has been classified; and

converting the aimed-at data item to a data item having a higher quality, according to the conversion information,

wherein the aimed-at data item is classified into a different class according to at least one

of a missing condition of the aimed-at data item and and/or one or more data items disposed around the aimed-at data item, in the step of classifying the aimed-at data item.

22. (Currently Amended) A learning apparatus comprising:

a class classifier for classifying an aimed-at data item into one of a plurality of classes specified in advance, according to a plurality of data items disposed around the aimed-at data item; and

a conversion-information generator for generating conversion information used for converting the aimed-at data item to a data item having a higher quality, for the class,

wherein the class classifier classifies the aimed-at data item into a different class according to at least one of a missing condition of the aimed-at data item and and/or one or more data items disposed around the aimed-at data item.

23. (Currently Amended) A learning method comprising the steps of:

classifying an aimed-at data item into one of a plurality of classes specified in advance, according to a plurality of data items disposed around the aimed-at data item; and

generating conversion information used for converting the aimed-at data item to a data item having a higher quality, for the class,

wherein the aimed-at data item is classified into a different class in the step of classifying the aimed-at data item, according to at least one of a missing condition of the aimed-at data item and-and/or one or more data items disposed around the aimed-at data item.

24. (Previously Presented) An information processing apparatus according to Claim 1,

wherein the class classifier classifies the aimed-at data item into a different class according to preprocessed missing data among said one or more data items disposed around the aimed-at data item.